

INDEX TO VOLUME 83

A

- Acanthis flammea*, 74
flaviostris, 277
hornemanni, 74
 Accentor, Siberian, see *Prunella montanella*
Accipiter bicolor, 211
cooperii, 49, 148
gentilis, 52
striatus, 148
Acryllium vulturinum, 205
Actitis hypoleucos, 69
macularia, 181
 Adkisson, Curtis S., Geographic variation in vocalizations and evolution of North American Pine Grosbeaks, 277-288
Aegolius acadicus, 307, 383
funereus, 307, 383
Aethia cristatella, 71
Afropavo congensis, 204-208
Agelaius phoeniceus, 36, 179, 269
xanthomus, 159
Aimophila (Rhynchospiza) stolzmanni, 83-84, 214
 Ainley, David G., Daniel W. Anderson, and Paul R. Kelly, Feeding ecology of marine comorants in southwestern North America, 120-131
Aix sponsa, 36
Alauda arvensis, 71
 Albatross, Black-browed, see *Diomedea melanophris*
 Black-footed, see *Diomedea nigripes*
 Grey-headed, see *Diomedea chrysostoma*
 Laysan, see *Diomedea immutabilis*
 Wandering, see *Diomedea exulans*
Amazilia amazilia, 212
Amazona albifrons, 185
ventralis, 132
Ammodramus sandwichensis, 74
Amphispiza belli, 61-64, 113-119
Anas acuta, 68, 90
bahamensis, 211
clypeata, 68
crecca, 68
cyanoptera, 210
discors, 211
falcata, 68
penelope, 68
platyrhynchos, 68, 273
querquedula, 68
strepera, 68, 274
 Anderson, Daniel W., see Ainley, David G.
 Ani, Smooth-billed, see *Crotophaga ani*
Anser caerulescens, 187, 261, 322-327
canagicus, 68
fabalis, 68
 Antbird, Gray-headed, see *Myrmeciza griseiceps*
Anthracothonax dominicus, 141
Anthus cervinus, 73
hodgsoni, 73
lutescens, 213
spinoletta, 73
 Antpitta, Rusty-breasted, see *Grallaria ferrugineipectus*
 Apfelbaum, Steven, and Alan Haney, Bird populations before and after wildfire in a Great Lakes pine forest, 347-354
Aphelocoma coerulescens, 31, 377
Apus pacificus, 71
Aratinga astec, 185
Archilochus alexandri, 268
Arenaria interpres, 70
 Arnold, Michael D., see Jenny, J. Peter

- Asio capensis*, 383
flammeus, 71, 307, 383
otus, 307, 383
stygius, 148
 Astheimer, Lee B., see Hirsch, Katherine V.
Athene cunicularia, 271, 306, 383
noctua, 383
Atlapetes albiceps, 214
leucopterus, 214
nationi, 214
seebohmii, 214
 Auklet, Cassin's, see *Ptychoramphus aleuticus*
 Crested, see *Aethia cristatella*
Auriparus flaviceps, 268
Automolus erythrocephalus, 212
 Avocet, American, see *Recurvirostra americana*
Aythya ferina, 68
fuligula, 68
marila, 68
valisineria, 68

B

- Baker, James A., and Ronald J. Brooks, Distribution patterns of raptors in relation to density of meadow voles, 42-47
 Baker, Myron Charles, Daniel B. Thompson, and Gregory L. Sherman, Neighbor/stranger song discrimination in White-crowned Sparrows, 265-267
 Barn-Owl, New Britain, see *Tyto aurantia*
 Barrows, Cameron W., Roost selection by Spotted Owls: An adaptation to heat stress, 302-309
Basileuterus fraseri, 214, 215
trifasciatus, 214
 Becard, Black-and-White, see *Pachyrhamphus albobrigesus*
 Beedy, Edward C., Bird communities and forest structure in the Sierra Nevada of California, 97-105
 Bittern, Least, see *Ixobrychus exilis*
 Blackbird, Brewer's, see *Euphagus cyanocephalus*
 Melodious, see *Dives dives*
 Red-winged, see *Agelaius phoeniceus*
 Scrub, see *Dives warszewiczii*
 Yellow-shouldered, see *Agelaius xanthomus*
 Blem, Charles R., Geographic variation in mid-winter body composition of Starlings, 370-376
 Bluebird, Eastern, see *Sialia sialis*
 Mountain, see *Sialia currucoides*
Bonasa umbellus, 171
 Booby, Brown, see *Sula leucogaster*
 Red-footed, see *Sula sula*
 Borror, Donald J., The songs and singing behavior of the Red-eyed Vireo, 217-228
 Bousfield, M. A., see Cooke, F.
Brachyrhamphus marmoratus, 264-265
 Brambling, see *Fringilla montifringilla*
Branta canadensis, 68, 177-179, 261
 Briggs, Kenneth T., David B. Lewis, William Breck Tyler, and George L. Hunt, Jr., Brown Pelicans in southern California: Habitat use and environmental fluctuations, 1-15
 Brooks, Ronald J., see Baker, James A.
 Brush-finch, Bay-crowned, see *Atlapetes seebohmii*
 Rusty-bellied, see *Atlapetes nationi*
 White-headed, see *Atlapetes albiceps*
 White-winged, see *Atlapetes leucopterus*
Bubo virginianus, 36, 50, 52, 177, 280, 307
Bubulcus ibis, 271
Bucephala albeola, 68
clangula, 68

- Bufflehead, see *Bucephala albeola*
 Bullfinch, see *Pyrrhula pyrrhula*
 Bunting, Gray, see *Emberiza variabilis*
 Little, see *Emberiza pusilla*
 Reed, see *Emberiza schoeniclus*
 Rustic, see *Emberiza rustica*
 Snow, see *Plectrophenax nivalis*
 Burger, Alan E., Time budgets, energy needs and kleptoparasitism in breeding Lesser Sheathbills (*Chionis minor*), 106-112
 Burger, Joanna, see Gochfeld, Michael
 Burger, Joanna, and Michael Gochfeld, Nest site selection by Kelp Gulls in southern Africa, 243-251
 Burger, Joanna, Feeding competition between Laughing Gulls and Herring Gulls at a sanitary landfill, 328-335
Burhinus bistriatus, 183
 superciliaris, 183-184
Buteo albicaudatus, 49
 buteo, 52
 jamaicensis, 36, 42-47, 137, 280, 378
 lagopus, 42-47, 68
 lineatus, 132-151
 magnirostris, 49, 148
 nitidus, 148
 platypterus, 148
 regalis, 45, 52-56, 187-189
 ridgwayi, 132-151
 solitarius, 148
 swainsoni, 214, 280
Buteogallus urubitinga, 49, 211
 Butler, Robert W., see Verbeek, Nicolaas A. M.
 Buzzard, Common, see *Buteo buteo*
 Buzzard-eagle, Black-chested, see *Geranoaetus melanoleucus*

C

- Calcarius lapponicus*, 74
 Calder, William A., III, Diuresis on the desert? Effects of fruit and nectar-feeding on the House Finch and other species, 267-268
Calidris acuminata, 70
 alba, 70
 alpina, 70
 bairdii, 70, 229
 canutus, 70
 ferruginea, 70
 mauri, 70
 melanotos, 70
 pilocnemis, 70
 pusilla, 70
 ruficollis, 70
 subminuta, 70
 temminckii, 70, 181
 tenuirostris, 70
Calypte anna, 101
Camaroptera brevicaudata, 177-179
Camaroptera, Gray-backed, see *Camaroptera brevicaudata*
Campylorhynchus brunneicapillus, 88
Canachites canadensis, 349
 Canvasback, see *Aythya valisineria*
 Caracara, Crested, see *Polyborus plancus*
 Yellow-headed, see *Mitvaco chimachima*
 Cardinal, see *Cardinalis cardinalis*
Cardinalis cardinalis, 36, 269, 342
Carduelis sinica, 74
 tristis, 36, 273
Cariama cristata, 183
Carpodacus cassinii, 99
 erythrinus, 74
 mexicanus, 267-268
 purpureus, 99, 349
 Carroll, Laura F., see Leger, Daniel W.
Caryothraustes canadensis, 82-83
Casmerodius albus, 84
 Catbird, Gray, see *Dumetella carolinensis*
Catharacta lonnbergi, 107
Cathartes aura, 49, 141
Catharus guttatus, 102, 342, 349
 minimus, 72, 349
 ustulatus, 349
Centurus aurifrons, 185
 pygmaeus, 185
Cephus columba, 71
Certhia familiaris, 102, 349
 Chaffinch, see *Fringilla coelebs*
Charadrius alexandrinus, 180, 273
 collaris, 211
 melodus, 180
 mongolus, 69
 pallidus, 180
 semipalmatus, 69, 180
 vociferus, 180-181
 Chat, Palm, see *Dulus dominicus*
 Chickadee, Black-capped, see *Parus atricapillus*
 Boreal, see *Parus hudsonicus*
 Carolina, see *Parus carolinensis*
 Chestnut-backed, see *Parus rufescens*
 Mexican, see *Parus sclateri*
 Mountain, see *Parus gambeli*
 Chicken, see *Gallus gallus*
 White Leghorn, see *Gallus gallus*
Chionis minor, 106-112
Chordeiles minor, 209-216
Chunga burmeisteri, 182-183
Ciconia maguari, 84
Circus cyaneus, 52, 68
Cissilophya yucatanica, 185
Cistothorus palustris, 217
Clangula hyemalis, 68
Claravis mondetoura, 212
Coereba flaveola, 144
Colaptes auratus, 36, 101, 287, 349
 Cole, Donna C., see Schmitt, C. Gregory
Colibri coruscans, 212
Columba inornata, 141
 squamosa, 149
Columbina cruziana, 212
 minuta, 212
 passerina, 143
 Connelly, John W., and Robert J. Gates, First record of a Black-legged Kittiwake in Idaho, 272-273
Contopus sordidulus, 101
 Cooke, F., M. A. Bousfield, and A. Sadura, Mate change and reproductive success in the Lesser Snow Goose, 322-327
Coragyps atratus, 49
 Cormorant, Brandt's, see *Phalacrocorax penicillatus*
 Double-crested, see *Phalacrocorax auritus*
 Olivaceous, see *Phalacrocorax olivaceus*
 Pelagic, see *Phalacrocorax pelagicus*
 Red-faced, see *Phalacrocorax urile*
Corvus brachyrhynchos, 78
 caurinus, 159
 corax, 72, 78, 199, 349
 leucognathus, 137
Cotinga amabilis, 185
Coturnix coturnix, 269
 Cowbird, Bay-winged, see *Molothrus badius*
 Bronzed, see *Molothrus aeneus*
 Brown-headed, see *Molothrus ater*
 Giant, see *Scaphidura oryzivora*
 Shiny, see *Molothrus bonariensis*
Crax mitu, 207
Creagrurus furcatus, 201

Creeper, Brown, see *Certhia familiaris*
Crotophaga ani, 388
 Crow, Common, see *Corvus brachyrhynchos*
 White-necked, see *Corvus leucognathus*
Crypturellus transfasciatus, 210
 Cuckoo, Striped, see *Tapera naevia*
 Curassow, Razor-billed, see *Crax mitu*
 Curlew, Bristle-thighed, see *Numenius tahitiensis*
Cyanocitta cristata, 36, 349
 stelleri, 101, 339
Cyanocorax yncas, 185

D

deBoer, Leobert E. M., and Roland van Bockstaele,
 Somatic chromosomes of the Congo Peafowl
 (*Afropavo congensis*) and their bearing on the
 species' affinities, 204-208
Dendragapus obscurus, 171-176
Dendroica castanea, 349
 coronata, 36, 102, 287, 349
 fusca, 349
 kirtlandii, 152
 magnolia, 90
 nigrescens, 102
 occidentalis, 102
 palmarum, 36
 pennsylvanica, 349
 petechia, 102, 311
 pinus, 36
 townsendi, 73
Diomedea chrysostoma, 238-242
 exulans, 241
 immutabilis, 67, 91, 241
 melanophris, 238-242
 nigripes, 359
Dives dives, 185
 warszewiczii, 213
 Dotterel, see *Eudromias morinellus*
 Tawny-throated, see *Eudromias ruficollis*
 Dove, Eared, see *Zenaida auriculata*
 Mourning, see *Zenaida macroura*
 Ringed Turtle, see *Streptopelia risoria*
 Dowitcher, Long-billed, see *Limnodromus scolopaceus*
Dromaius novaehollandiae, 381-382
Dryocopus pileatus, 36, 101
 Duck, Harlequin, see *Histrionicus histrionicus*
 Tufted, see *Aythya fuligula*
 Wood, see *Aix sponsa*
Dulus dominicus, 138
Dumetella carolinensis, 311
 Dunlin, see *Calidris alpina*

E

Eagle, Solitary, see *Harpophalioetus solitarius*
 Easterla, David A., see Robbins, Mark B.
 Egret, Cattle, see *Bubulcus ibis*
 Great, see *Casmerodius albus*
 Eider, Common, see *Somateria mollissima*
 Steller's, see *Polysticta stelleri*
Elanus leucurus, 271
Emberiza pusilla, 74
 rustica, 74
 schoeniclus, 74
 variabilis, 74
Empidonax hammondi, 99
 minimus, 311
 oberholseri, 99
 Emu, see *Dromaius novaehollandiae*
 Eng, Robert L., Breeding record for the Snowy Plover
 for Montana, 273
 Engstrom, R. Todd, and Frances C. James, Plot size as
 a factor in winter bird-population studies, 34-41

Eremophila alpestris, 72
Erithacus calliope, 72
Eudocimus albus, 210
Eudromias morinellus, 69
 ruficollis, 211
Eudryptes chrysocome, 106-112
 schlegelii, 241
Euphagus cyanocephalus, 179-180
Euphonia affinis, 185
 hirundinacea, 185
 Euphonia, Scrub, see *Euphonia affinis*

F

Falco femoralis, 50
 peregrinus, 69, 89-90, 387
 rufigularis, 215
 sparverius, 141, 229
 tinnunculus, 68
 Falcon, Aplomado, see *Falco femoralis*
 Bat, see *Falco rufigularis*
 Laughing, see *Herpetotheres cachinnans*
 Peregrine, see *Falco peregrinus*
Ficedula parva, 73
 Ficken, Millicent S., What is the song of the Black-
 capped Chickadee?, 384-386
 Finch, Crimson, see *Rhodospingus cruentus*
 Finch, Deborah M., Nest predation of Abert's Towhees
 by Coachwhips and Roadrunners, 389
 Finch, House, see *Carpodacus mexicanus*
 Purple, see *Carpodacus purpureus*
 Slaty, see *Haplospiza rustica*
 Zebra, see *Poephila guttata*
 Fischer, David H., Wintering ecology of thrashers in
 southern Texas, 340-346
 Flamingo, Chilean, see *Phoenicopterus chilensis*
 Flicker, Common, see *Colaptes auratus*
 Red-shafted, see *Colaptes auratus*
 Yellow-shafted, see *Colaptes auratus*
Florida caerulea, 79
 Flycatcher, Gray-spotted, see *Muscicapa griseisticta*
 Least, see *Empidonax minimus*
 Olive-sided, see *Nuttallornis borealis*
 Red-breasted, see *Ficedula parva*
 Rufous, see *Myiarchus semirufus*
 Social, see *Myiozetetes similis*
 Sooty, see *Muscicapa sibirica*
 Sooty-crowned, see *Myiarchus phaeocephalus*
 Foliage-gleaner, Henna-hooded, see *Automolus erythrocephalus*
Forpus passerinus, 50
 Fowl, Domestic, see *Gallus gallus*
Fratercula arctica, 111
 corniculata, 71
Fregata magnificens, 79-82
 minor, 81
 Frigatebird, Great, see *Fregata minor*
 Magnificent, see *Fregata magnificens*
Fringilla coelebs, 277
 montifringilla, 73
 Fulmar, Northern, see *Fulmarus glacialis*
Fulmarus glacialis, 322

G

Gadwall, see *Anas strepera*
Gallinago gallinago, 70
Gallus gallus var. *domesticus*, 177, 205-206, 273, 355,
 381
 Gannet, Atlantic, see *Sula bassana*
 Cape, see *Morus capensis*
 Garganey, see *Anas querquedula*
 Gates, Robert J., see Connelly, John W.
Gavia adamsii, 67

- immer, 67
 stellata, 67
Geococcyx californianus, 388, 389
Geothlypis aequinoctialis, 215
 trichas, 36, 90
Geranoaetus melanoleucus, 215
Geranospiza caerulescens, 48
 Gibson, Daniel D., Migrant birds at Shemya Island, Aleutian Islands, Alaska, 65-77
Glaucidium brasilianum, 50
 Gochfeld, Michael, see Burger, Joanna
 Gochfeld, Michael, and Joanna Burger, Age-related differences in piracy of Frigatebirds from Laughing Gulls, 79-82
 Godwit, Bar-tailed, see *Limosa lapponica*
 Black-tailed, see *Limosa limosa*
 Goldeneye, Common, see *Bucephala clangula*
 Goldfinch, American, see *Carduelis tristis*
 Goose, Bean, see *Anser fabalis*
 Cackling, see *Branta canadensis*
 Canada, see *Branta canadensis*
 Emperor, see *Anser canagicus*
 Lesser Snow, see *Anser caerulescens*
 Snow, see *Anser caerulescens*
 Goshawk, see *Accipiter gentilis*
 Gottfried, Bradley M., see Thompson, Charles F.
 Grackle, Common, see *Quiscalus quiscula*
 Great-tailed, see *Quiscalus mexicanus*
Grallaria ferrugineipectus, 213
 Grant, Gilbert S., see Pettit, Ted N.
 Grasshopper-Warbler, Middendorff's, see *Locustella ochotensis*
 Grau, C. R., see Hirsch, Katherine V.
 Grebe, Horned, see *Podiceps auritus*
 Red-necked, see *Podiceps grisegena*
 Silvery, see *Podiceps occipitalis*
 White-tufted, see *Rollandia rolland*
 Greenfinch, Oriental, see *Carduelis sinica*
 Greenshank, see *Tringa nebularia*
 Grosbeak, Black-faced, see *Caryothraustes canadensis*
 Black-headed, see *Pheucticus melanocephalus*
 Evening, see *Hesperiphona vespertina*
 Pine, see *Pinicola enucleator*
 Rose-breasted, see *Pheucticus ludovicianus*
 Ground-Cuckoo, Rufous-vented, see *Neomorphus geoffroyi*
 Rufous-winged, see *Neomorphus rufipennis*
 Ground-Dove, Common, see *Columbina passerina*
 Croaking, see *Columbina cruziana*
 Maroon-chested, see *Claravis mondetoura*
 Plain-breasted, see *Columbina minuta*
 Grouse, Blue, see *Dendragapus obscurus*
 Red, see *Lagopus lagopus*
 Ruffed, see *Bonasa umbellus*
 Spruce, see *Canachites canadensis*
 Guan, White-winged, see *Penelope albipennis*
 Guillemot, Pigeon, see *Cephus columba*
 Guindon, Carlos F., see Lawton, Marcy F.
 Guinea fowl, Helmeted, see *Numida meleagris*
 Vulturine, see *Acryllium vulturinum*
 Gull, Black-headed, see *Larus ridibundus*
 Brown-headed, see *Larus maculipennis*
 Franklin's, see *Larus pipixcan*
 Glaucous, see *Larus hyperboreus*
 Glaucous-winged, see *Larus glaucescens*
 Gray, see *Larus modestus*
 Gray-hooded, see *Larus cirrocephalus*
 Great Black-backed, see *Larus marinus*
 Heermann's, see *Larus heermanni*
 Herring, see *Larus argentatus*
 Kelp, see *Larus dominicanus*
 Laughing, see *Larus atricilla*
 Lava, see *Larus fuliginosus*
 Mew, see *Larus canus*
 Ring-billed, see *Larus delawarensis*
 Silver, see *Larus novaehollandiae*
 Slaty-backed, see *Larus schistisagus*
 Sooty, see *Larus hemprichii*
 Swallow-tailed, see *Creagrurus furcatus*
 Western, see *Larus occidentalis*
Gygis alba, 355-361
Gymnorhinus cyanocephalus, 166
- ## H
- Haematopus palliatus*, 199
Halocyptena microsoma, 196
 Hand, J. L., G. L. Hunt, Jr., and M. Warner, Thermal stress and predation: Influences on the structure of a gull colony and possibly on breeding distributions, 193-203
 Hand, Judith Latta, A comparison of vocalizations of Western Gulls (*Larus occidentalis occidentalis* and *L. o. livens*), 289-301
 Haney, Alan, see Apfelbaum, Steven
Haplospiza rustica, 214
Harpyhaliaetus solitarius, 215
 Hawk, Bicolored, see *Accipiter bicolor*
 Broad-winged, see *Buteo platypterus*
 Cooper's, see *Accipiter cooperii*
 Crane, see *Geranospiza caerulescens*
 Ferruginous, see *Buteo regalis*
 Gray, see *Buteo nitidus*
 Great Black, see *Buteogallus urubitinga*
 Hawaiian, see *Buteo solitarius*
 Marsh, see *Circus cyaneus*
 Red-shouldered, see *Buteo lineatus*
 Red-tailed, see *Buteo jamaicensis*
 Ridgway's, see *Buteo ridgwayi*
 Roadside, see *Buteo magnirostris*
 Rough-legged, see *Buteo lagopus*
 Savanna, see *Heterospizias meridionalis*
 Sharp-shinned, see *Accipiter striatus*
 Swainson's, see *Buteo swainsoni*
 White-tailed, see *Buteo albicaudatus*
 Hawk-Owl, Admiralty Islands, see *Ninox meeki*
 Andaman Islands, see *Ninox affinis*
 New Britain, see *Ninox odiosa*
 New Ireland, see *Ninox solomonis*
 Solomon Islands, see *Ninox jacquinoti*
 Herlugson, Christopher J., Nest site selection in Mountain Bluebirds, 252-255
 Hermit, Gray-chinned, see *Phaethornis griseogularis*
 Heron, Little Blue, see *Florida caerulea*
Herpetotheres cachinnans, 50
Hesperiphona vespertina, 102
Heteroscelus brevipes, 69
 incanus, 69
Heterospizias meridionalis, 50
Himantopus mexicanus, 79, 202
 Hirsch, Katherine V., and C. R. Grau, Yolk formation and oviposition in captive Emus, 381-382
 Hirsch, Katherine V., Douglas A. Woodby, and Lee B. Astheimer, Growth of a nestling Marbled Murrelet, 264-265
Hirundo rustica, 72, 215
Histrionicus histrionicus, 68
 Hoffman, Stephen W., see Vander Wall, Stephen B.
 Hubbard, Joel D., see King, James R.
 Hummingbird, Anna's, see *Calypte anna*
 Black-chinned, see *Archilochus alexandri*
 Rufous, see *Selasphorus rufus*
 Spot-throated, see *Leucippus taczanowskii*
 Tumbes, see *Leucippus baeri*
 Hunt, G. L., Jr., see Hand, J. L.
 Hunt, George L., Jr., see Briggs, Kenneth T.

Huntley, Nancy J., see Inouye, Richard S.
Hylocichla mustelina, 217

I

Ibis, Buff-necked, see *Theristicus caudatus*
 White, see *Eudocimus albus*

Icterus auratus, 185
chrysater, 185
cucullatus, 268, 270
galbula, 311
gracannae, 214
gularis, 185
mesomelas, 185, 214
prothemelas, 185
spurius, 270

Inouye, David W., see Inouye, Richard S.
 Inouye, Richard S., Nancy J. Huntley, and David W.
 Inouye, Non-random orientation of Gila Wood-
 pecker nest entrances in saguaro cacti, 88-89

Iridoprocne bicolor, 349

Iridosornis analis, 215

Ixobrychus exilis, 210

J

Jabiru, see *Jabiru mycteria*

Jabiru mycteria, 84-85

Jaeger, Long-tailed, see *Stercorarius longicaudus*

Parasitic, see *Stercorarius parasiticus*

Pomarine, see *Stercorarius pomarinus*

James, Frances C., see Engstrom, R. Todd

Jay, Blue, see *Cyanocitta cristata*

Brown, see *Psittorhinus morio*

Florida Scrub, see *Aphelocoma coerulescens*

Gray, see *Perisoreus canadensis*

Piñon, see *Gymnorhinus cyanocephalus*

Scrub, see *Aphelocoma coerulescens*

Steller's, see *Cyanocitta stelleri*

Yucatan, see *Cissilophya yucatanica*

Jenny, J. Peter, Fernando Ortiz, and Michael D. Ar-
 nold, First nesting record of the Peregrine Fal-
 con in Ecuador, 387

Johnson, Mark L., see Mundahl, John T.

Johnson, Oscar L., see Mundahl, John T.

Junco, Dark-eyed, see *Junco hyemalis*

Junco hyemalis, 102, 177, 349

K

Kantak, Gail E., Temporal feeding patterns of some
 tropical frugivores, 185-187

Kelly, Paul R., see Ainley, David G.

Kestrel, American, see *Falco sparverius*

European, see *Falco tinnunculus*

Killdeer, see *Charadrius vociferus*

King, James R., and Joel D. Hubbard, Comparative
 patterns of nestling growth in White-crowned
 Sparrows, 362-369

Kingbird, Cassin's, see *Tyrannus vociferans*

Eastern, see *Tyrannus tyrannus*

Gray, see *Tyrannus dominicensis*

Tropical, see *Tyrannus melancholicus*

Western, see *Tyrannus verticalis*

Kinglet, Golden-crowned, see *Regulus satrapa*

Ruby-crowned, see *Regulus calendula*

Kiskadee, Great, see *Pitangus sulphuratus*

Kite, Slender-billed, see *Rostrhamus hamatus*

Snail, see *Rostrhamus sociabilis*

White-tailed, see *Elanus leucurus*

Kittiwake, Black-legged, see *Rissa tridactyla*

Red-legged, see *Rissa brevirostris*

Knot, Great, see *Calidris tenuirostris*

Red, see *Calidris canutus*

L

Lagopus lagopus, 174, 236

mutus, 111

Lanius cristatus, 73

ludovicianus, 36, 62

Lark, Horned, see *Eremophila alpestris*

Larus argentatus, 71, 79, 193, 229, 289, 328-335, 359

atricilla, 79-82, 328-335

canus, 70

cirrocephalus, 211

delawarensis, 57-60, 79, 198

dominicanus, 107, 193, 243-251, 289

fuliginosus, 201

genei, 201

glaucescens, 71, 289, 296, 298, 333

heermanni, 200

hemprichii, 201

hyperboreus, 71, 289

maculipennis, 243

marinus, 289

modestus, 198, 291

novae-hollandiae, 322

occidentalis, 193-203, 289-301

pipixcan, 243

ridibundus, 57, 71

schistisagus, 71

Lawton, Marcy F., and Carlos F. Guindon, Flock com-
 position, breeding success and learning in the
 Brown Jay, 27-33

Leatherwood, Stephen, see Rogers, William

Leger, Daniel W., and Laura F. Carroll, Mobbing calls
 of the Phainopepla, 377-380

Leucippus baeri, 212

taczanowskii, 212

Leucosticte arctoa, 67, 74

Lewis, David B., see Briggs, Kenneth T.

Lewis, Richard A., and Fred C. Zwickel, Differential
 use of territorial sites by male Blue Grouse, 171-
 176

Limicola falcinellus, 70

Limnodromus scolopaceus, 70

Limosa lapponica, 69

limosa, 69

Locustella ochotensis, 72

Lokemoen, J. T., and D. E. Sharp, Occurrence of twin
 Gadwall embryos, 273-274

Longspur, Lapland, see *Calcarius lapponicus*

Loon, Common, see *Gavia immer*

Red-throated, see *Gavia stellata*

Yellow-billed, see *Gavia adamsii*

Lophophorus impejanus, 204

Lophortyx californicus, 178

Lunda cirrhata, 71

M

MacKenzie, David I., and Spencer G. Sealy, Nest site
 selection in Eastern and Western kingbirds: A
 multivariate approach, 310-321

Macronectes giganteus, 210

Mader, William J., Notes on nesting raptors in the Ila-
 nos of Venezuela, 48-51

Mallard, see *Anas platyrhynchos*

Mango, Antillean, see *Anthracothorax dominicus*

Martin, Purple, see *Progne subis*

Southern, see *Progne modesta*

Meadowlark, Eastern, see *Sturnella magna*

Megarhynchus pitangua, 185

Melanerpes carolinus, 36

erythrocephalus, 345

formicivorus, 336-339

uropygialis, 88-89

- Melanitta fusca*, 68
nigra, 66
Meleagris gallopavo, 207, 382
Melospiza georgiana, 36
melodia, 74, 152-161, 266, 273
 Merganser, Common, see *Mergus merganser*
 Red-breasted, see *Mergus serrator*
Mergus albellus, 68
merganser, 68
serrator, 68
Micrathene whitneyi, 306
Milvago chimachima, 49
Mimus gilvus, 337
polyglottos, 345
Mniotilta varia, 209-216
 Mockingbird, see *Mimus polyglottos*
 Tropical, see *Mimus gilvus*
 Moermond, Timothy C., Cooperative feeding, defense of young and flocking in the Black-faced Grosbeak, 82-83
Molothrus aeneus, 179, 270-272
ater, 62, 102, 152-161, 179, 268-269, 271, 389
badius, 179
bonariensis, 84, 159, 177
Morus capensis, 245
Motacilla alba, 73
cinerea, 73
flava, 73
 Mundahl, John T., Oscar L. Johnson, and Mark L. Johnson, Observations at a twenty-egg Killdeer nest, 180-182
 Murphy, Joseph R., see Smith, Dwight G.
 Murre, Common, see *Uria aalge*
 Thick-billed, see *Uria lomvia*
 Murulet, Ancient, see *Synthliboramphus antiquus*
 Marbled, see *Brachyramphus marmoratus*
Muscicapa griseisticta, 73
sibirica, 73
Myadestes townsendi, 102, 345
Myiarchus phaeocephalus, 213
semirufus, 213
Myiodynastes bairdii, 213
Myiozetetes similis, 185, 337
Myrmeciza griseiceps, 212

N

- Neomorphus geoffroyi*, 388
pucheranii, 388
rufipennis, 388
Nexasio solomonensis, 383
 Nighthawk, Common, see *Chordeiles minor*
Ninox affinis, 383
jacquinoti, 383
meeki, 383
odiosa, 383
solomonis, 383
Nucifraga caryocatactes, 162
columbiana, 162-170
Numenius phaeopus, 67, 69
tahitiensis, 69
Numida meleagris, 205
 Nutcracker, Clark's, see *Nucifraga columbiana*
 Eurasian, see *Nucifraga caryocatactes*
 Nuthatch, Brown-headed, see *Sitta pusilla*
 Red-breasted, see *Sitta canadensis*
 White-breasted, see *Sitta carolinensis*
Nuttallornis borealis, 101, 349
Nyctea scandiaca, 54, 71, 307, 383

O

- Oceanodroma furcata*, 67
leucorhoa, 90
Oenanthe oenanthe, 72

- Oldsquaw, see *Clangula hyemalis*
Oreoscoptes montanus, 61-64
 Oriole, Altamira, see *Icterus gularis*
 Hooded, see *Icterus cucullatus*
 Northern, see *Icterus galbula*
 Orange, see *Icterus auratus*
 Orchard, see *Icterus spurius*
 White-edged, see *Icterus griseacannae*
 Yellow-tailed, see *Icterus mesomelas*

Ortalis vetula, 185

Ortiz, Fernando, see Jenny, J. Peter

Osprey, see *Pandion haliaetus*

Otus alfredi, 383

balli, 383

gurneyi, 383

hartlaubi, 383

insularis, 383

lawrencii, 383

nudipes, 383

podarginus, 383

silvicolus, 383

umbra, 383

Ovenbird, see *Seiurus aurocapillus*

Owl, African Marsh, see *Asio capensis*

Barn, see *Tyto alba*

Boreal, see *Aegolius funereus*

Burrowing, see *Athene cunicularia*

Elf, see *Micrathene whitneyi*

Fearful, see *Nexasio solomonensis*

Ferruginous Pygmy, see *Glaucidium brasilianum*

Great Gray, see *Strix nebulosa*

Great Horned, see *Bubo virginianus*

Hawk, see *Surnia ulula*

Jamaican, see *Pseudoscops grammicus*

Laughing, see *Sceloglaux albifacies*

Little, see *Athene noctua*

Long-eared, see *Asio otus*

Saw-whet, see *Aegolius acadicus*

Short-eared, see *Asio flammeus*

Snowy, see *Nyctea scandiaca*

Spectacled, see *Pulsatrix perspicillata*

Spotted, see *Strix occidentalis*

Striped, see *Rhinoptynx clamator*

Stygian, see *Asio stygius*

Tawny, see *Strix aluco*

Oystercatcher, American, see *Haematopus palliatus*

P

- Pachyptila belcheri*, 210
Pachyramphus albogriseus, 213
 Paganelli, Charles V., see Pettit, Ted N.
Pandion haliaetus, 89-90, 199
Panyptila cayennensis, 215
 Parakeet, Aztec, see *Aratinga astec*
 Parker, Theodore A., III, see Schulenberg, Thomas S.
 Parrot, Hispaniolan, see *Amazona ventralis*
 Parrotlet, Green-rumped, see *Forpus passerinus*
Parula pitiayumi, 215
 Parula, Tropical, see *Parula pitiayumi*
Parus atricapillus, 384-386
carolinensis, 384
gambeli, 101
hudsonicus, 349, 386
inornatus, 263, 345
major, 160, 229
rufescens, 263, 386
scaleri, 386
Passer domesticus, 252, 269, 370
Passerella iliaca, 102, 154
Pavo cristatus, 204
muticus, 205
 Peafowl, Blue, see *Pavo cristatus*
 Congo, see *Afropavo congensis*

- Pelecanus occidentalis*, 1-15, 79, 196
onocrotalus, 250
 Pelican, Brown, see *Pelecanus occidentalis*
 White, see *Pelecanus onocrotalus*
Penelope albipennis, 215
 Penguin, Adelie, see *Pygoscelis adeliae*
 Rockhopper, see *Eudyptes chrysocome*
 Royal, see *Eudyptes schlegeli*
Perisoreus canadensis, 349
 Perrone, Michael, Jr., Adaptive significance of ear tufts in owls, 383-384
 Peterson, Margaret R., Populations, feeding ecology and molt of Steller's Eiders, 256-262
 Petrel, Bonin, see *Pterodroma hypoleuca*
 Giant, see *Macronectes giganteus*
Petrochelidon fulva, 213
pyrrhonota, 90, 213, 215
 Pettit, Ted N., Gilbert S. Grant, G. Causey Whittow, Hermann Rahn, and Charles V. Paganelli, Respiratory gas exchange and growth of White Tern embryos, 355-361
 Pettit, Ted N., and G. Causey Whittow, Embryonic double monster in the Wedge-tailed Shearwater, 91
 Pewee, Western Wood, see *Contopus sordidulus*
Phaenophilus palmarum, 144
Phaethornis griseogularis, 212
Phainopepla, see *Phainopepla nitens*
Phainopepla nitens, 377-380
Phalacrocorax auritus, 120-131
olivaceus, 79
pelagicus, 68, 120-131
penicillatus, 120-131
urile, 68
 Phalarope, Northern, see *Phalaropus lobatus*
 Red, see *Phalaropus fulicarius*
Phalaropus fulicarius, 70
lobatus, 70
Phasianus colchicus, 177, 206
 Pheasant, Himalayan Monal, see *Lophophorus impejanus*
 Ring-necked, see *Phasianus colchicus*
Pheucticus ludovicianus, 349
melanocephalus, 102
Philomachus pugnax, 71
 Phoebe, Eastern, see *Sayornis phoebe*
Phoenicopterus chilensis, 214
Phylloscopus borealis, 72
fuscatus, 72
sibilatrix, 72
Picoides arcticus, 349
borealis, 36
pubescens, 36
villosus, 36, 101
 Pigeon, Plain, see *Columba inornata*
 Red-necked, see *Columba squamata*
Pinicola enucleator, 102, 277-288, 349
 Pintail, see *Anas acuta*
 White-cheeked, see *Anas bahamensis*
Pipilo aberti, 389
erythrophthalmus, 36
 Pipit, Indian Tree, see *Anthus hodgsoni*
 Red-throated, see *Anthus cervinus*
 Water, see *Anthus spinoletta*
 Yellowish, see *Anthus lutescens*
Piranga ludoviciana, 102
rubra, 337
Pitangus sulphuratus, 185
Plectrophenax nivalis, 74
 Plover, Black-bellied, see *Pluvialis squatarola*
 Chestnut-banded Sand, see *Charadrius pallidus*
 Collared, see *Charadrius collaris*
 Lesser Golden, see *Pluvialis dominica*
 Mongolian, see *Charadrius mongolus*
 Piping, see *Charadrius melodus*
 Semipalmated, see *Charadrius semipalmatus*
 Snowy, see *Charadrius alexandrinus*
Pluvialis dominica, 69
squatarola, 69
 Pochard, Common, see *Aythya ferina*
Podiceps auritus, 67
grisegena, 67
occipitalis, 214
Poephila guttata, 229-237, 254
Polyborus plancus, 49
Polysticta stelleri, 68, 256-262
 Potts, Wayne K., see Vander Wall, Stephen B.
 Prince, P. A., C. Ricketts, and G. Thomas, Weight loss in incubating albatrosses and its implications for their energy and food requirements, 238-242
 Prion, Slender-billed, see *Pachyptila belcheri*
Progne fulva, 215
modesta, 215
subis, 252
Prunella montanella, 73
Pseudoscops grammicus, 383
Psilorhinus morio, 27-33, 185
 Ptarmigan, Rock, see *Lagopus mutus*
 Willow, see *Lagopus lagopus*
Pterodroma hypoleuca, 358
Pteroglossus torquatus, 185
Ptychoramphus aleuticus, 382
 Puffin, Common, see *Fratercula arctica*
 Horned, see *Fratercula corniculata*
 Tufted, see *Lunda cirrhata*
Puffinus pacificus, 91, 359
puffinus, 241, 322
tenuirostris, 67
Pulsatrix perspicillata, 212
Pygoscelis adeliae, 79
Pyrrhula pyrrhula, 74, 277
- Q**
- Quail, California, see *Lophortyx californicus*
 Common, see *Coturnix coturnix*
Quelea quelea, 177-179
Quelea, Red-billed, see *Quelea quelea*
Quiscalus mexicanus, 271
quiscula, 349
- R**
- Rahn, Hermann, see Pettit, Ted N.
Ramphastos sulfuratus, 185
 Raven, Common, see *Corvus corax*
Recurvirostra americana, 202
 Redpoll, Common, see *Acanthis flammea*
 Hoary, see *Acanthis hornemanni*
 Redshank, see *Tringa totanus*
 Redstart, American, see *Setophaga ruticilla*
Regulus calendula, 36, 102, 263, 349
satrapa, 102
 Reynolds, Timothy D., Nesting of the Sage Thrasher, Sage Sparrow and Brewer's Sparrow in southeastern Idaho, 61-64
Rhodospingus cruentus, 214
Rhea americana, 107
 Rhea, Greater, see *Rhea americana*
Rhinopteryx clamator, 383
 Rich, Terrell, Microgeographic variation in the song of the Sage Sparrow, 113-119
 Richardson, Howard, see Verbeek, Nicolaas A. M.
 Ricketts, C., see Prince, P. A.
Riparia riparia, 178, 213
Rissa brevirostris, 71
tridactyla, 71, 272-273, 322
 Roadrunner, see *Geococcyx californianus*

- Robbins, Charles T., Estimation of the relative protein cost of reproduction in birds, 177-179
- Robbins, Mark B., and David A. Easterla, Range expansion of the Bronzed Cowbird with the first Missouri record, 270-272
- Robin, American, see *Turdus migratorius*
- Robinson, Scott K., Ecological relations and social interactions of Philadelphia and Red-eyed vireos, 16-26
- Rogers, William, and Stephen Leatherwood, Observations of feeding at sea by a Peregrine Falcon and an Osprey, 89-90
- Rollandia rolland*, 214
- Rosefinch, Common, see *Carpodacus erythrinus*
- Rostrhamus hamatus*, 48
- sociabilis*, 48
- Rosy-Finch, Gray-crowned, see *Leucosticte arctoa*
- Roth, Paul, A nest of the Rufous-vented Ground-Cuckoo (*Neomorphus geoffroyi*), 388
- Rubythroat, Siberian, see *Erithacus calliope*
- Ruff, see *Philomachus pugnax*
- Ryder, John P., see Ryder, Patricia Lynn
- Ryder, Patricia Lynn, and John P. Ryder, Reproductive performance of Ring-billed Gulls in relation to nest location, 57-60
- Rynchops nigra*, 244
- S**
- Sadura, A., see Cooke, F.
- Salpinctes obsoletus*, 225
- Saltator atriceps*, 185
- Sanderling, see *Calidris alba*
- Sandpiper, Baird's, see *Calidris bairdii*
- Broad-billed, see *Limicola falcinellus*
- Buff-breasted, see *Tryngites subruficollis*
- Common, see *Actitis hypoleucos*
- Curlew, see *Calidris ferruginea*
- Pectoral, see *Calidris melanotos*
- Rock, see *Calidris ptilocnemis*
- Rufous-necked, see *Calidris ruficollis*
- Semipalmated, see *Calidris pusilla*
- Sharp-tailed, see *Calidris acuminata*
- Spotted, see *Actitis macularia*
- Terek, see *Xenus cinereus*
- Western, see *Calidris mauri*
- Wood, see *Tringa glareola*
- Sapsucker, Yellow-bellied, see *Sphyrapicus varius*
- Sayornis phoebe*, 36
- Scaphidura oryzivora*, 179
- Scaup, Greater, see *Aythya marila*
- Sceloglaux albifacies*, 383
- Schmitt, C. Gregory, and Donna C. Cole, First records of Black-legged Seriema (*Chunga burmeisteri*) in Bolivia, 182-183
- Schmutz, Josef K., see Schmutz, Sheila M.
- Schmutz, Sheila M., and Josef K. Schmutz, Inheritance of color phases of Ferruginous Hawks, 187-189
- Schulenberg, Thomas S., and Theodore A. Parker III, Status and distribution of some northwest Peruvian birds, 209-216
- Scops-Owl, Andaman, see *Otus balli*
- Bare-legged, see *Otus insularis*
- Flores, see *Otus alfredi*
- Giant, see *Otus gurneyi*
- Lesser Sunda, see *Otus silvicolus*
- Mentaur, see *Otus umbra*
- Palau, see *Otus podarginus*
- São Thomé, see *Otus hartlaubii*
- Screech-Owl, Cuban, see *Otus lawrenci*
- Puerto Rican, see *Otus nudipes*
- Scoter, White-winged, see *Melanitta fusca*
- Sealy, Spencer G., see MacKenzie, David I.
- Seiurus aurocapillus*, 46, 226, 349
- Selasphorus rufus*, 101
- Seriema, Black-legged, see *Chunga burmeisteri*
- Red-legged, see *Cariama cristata*
- Setophaga ruticilla*, 215
- Sharp, D. E., see Lokemoen, J. T.
- Shearwater, Manx, see *Puffinus puffinus*
- Peruvian, see *Thaumastura cora*
- Short-tailed, see *Puffinus tenuirostris*
- Wedge-tailed, see *Puffinus pacificus*
- Sheathbill, Lesser, see *Chionis minor*
- Sherman, Gregory L., see Baker, Myron Charles
- Shoveler, Northern, see *Anas clypeata*
- Shrike, Brown, see *Lanius cristatus*
- Loggerhead, see *Lanius ludovicianus*
- Sialia currucoides*, 252-255
- sialis*, 36, 252
- Sitta canadensis*, 102, 349
- carolinensis*, 36, 101
- pusilla*, 36
- Skimmer, Black, see *Rynchops nigra*
- Skua, Brown, see *Catharacta lonnbergi*
- Skylark, see *Alda arvensis*
- Smew, see *Mergus albellus*
- Smith, Dwight G., Joseph R. Murphy, and Neil D. Woffinden, Relationships between jackrabbit abundance and Ferruginous Hawk reproduction, 52-56
- Smith, James N. M., Cowbird parasitism, host fitness, and age of the host female in an island Song Sparrow population, 152-161
- Snipe, Common, see *Gallinago gallinago*
- Solitaire, Townsend's, see *Myadestes townsendi*
- Somateria mollissima*, 66, 68
- Sparrow, Brewer's, see *Spizella breweri*
- Chipping, see *Spizella passerina*
- Field, see *Spizella pusilla*
- Fox, see *Passerella iliaca*
- House, see *Passer domesticus*
- Sage, see *Amphispiza belli*
- Savannah, see *Ammodramus sandwichensis*
- Song, see *Melospiza melodia*
- Swamp, see *Melospiza georgiana*
- Tree, see *Spizella arborea*
- Tumbes, see *Aimophila (Rhynchospiza) stolzmanni*
- White-crowned, see *Zonotrichia leucophrys*
- White-throated, see *Zonotrichia albicollis*
- Sphyrapicus varius*, 36, 101
- Spindalis zena*, 143
- Spizella arborea*, 177
- breweri*, 61-64
- passerina*, 102
- pusilla*, 389
- Stacey, Peter B., Foraging behavior of the Acorn Woodpecker in Belize, Central America, 336-339
- Starling, see *Sturnus vulgaris*
- Stercorarius longicaudus*, 71
- parasiticus*, 71
- pomarinus*, 71
- Sterna aleutica*, 71
- dougallii*, 57
- forsteri*, 202
- fuscata*, 202
- hirundinacea*, 211
- hirundo*, 57, 71, 211
- paradisaea*, 57, 71, 212
- sandvicensis*, 79, 212, 243
- Stiehl, Richard B., Observations of a large roost of Common Ravens, 78
- Stilt, Black-necked, see *Himantopus mexicanus*
- Stint, Long-toed, see *Calidris subminuta*
- Temminck's, see *Calidris temminckii*
- Stork, Maguari, see *Ciconia maguari*

- Storm-Petrel, Fork-tailed, see *Oceanodroma furcata*
 Leach's, see *Oceanodroma leucorhoa*
Streptopelia risoria, 232
Strix aluco, 45, 52
 nebulosa, 307, 383
 occidentalis, 302-307
 varia, 307
Sturnella magna, 36
Sturnus vulgaris, 159, 178, 229, 252, 349, 370-376
Sula bassana, 322
 leucogaster, 90
 sula, 81
Surnia ulula, 307, 383
 Swallow, Bank, see *Riparia riparia*
 Barn, see *Hirundo rustica*
 Cave, see *Petrochelidon fulva*
 Cliff, see *Petrochelidon pyrrhonota*
 Mangrove, see *Tachycineta albilinea*
 Tree, see *Iridoprocne bicolor*
 Swift, Lesser Swallow-tailed, see *Panyptila cayennensis*
 Violet-green, see *Tachycineta thalassina*
 White-rumped, see *Apus pacificus*
Synthliboramphus antiquus, 71, 272

T

- Tachycineta albilinea*, 213
 thalassina, 72
 Tanager, Flamefaced, see *Tangara parzudakii*
 Stripe-headed, see *Spindalis zena*
 Summer, see *Piranga rubra*
 Western, see *Piranga ludoviciana*
 Yellow-throated, see *Iridosornis analis*
Tangara parzudakii, 215
Tapera naevia, 212
 Tattler, Polynesian, see *Heteroscelus brevipes*
 Wandering, see *Heteroscelus incanus*
 Teal, Blue-winged, see *Anas discors*
 Cinnamon, see *Anas cyanoptera*
 Falcated, see *Anas falcata*
 Green-winged, see *Anas crecca*
 Tern, Aleutian, see *Sterna aleutica*
 Arctic, see *Sterna paradisaea*
 Common, see *Sterna hirundo*
 Forster's, see *Sterna forsteri*
 Roseate, see *Sterna dougallii*
 Sandwich, see *Sterna sandvicensis*
 Sooty, see *Sterna fuscata*
 South American, see *Sterna hirundinacea*
 White, see *Gygis alba*
Thaumastura cora, 212
Theristicus caudatus, 210
 Thick-knee, Double-striped, see *Burhinus bistriatus*
 Peruvian, see *Burhinus superciliosus*
 Thomas, Betsy Trent, Jabiru nest, nest building and quintuplets, 84-85
 Thomas, G., see Prince, P. A.
 Thompson, Charles F., Bradley M. Gottfried, Nest discovery and selection by Brown-headed Cowbirds, 268-269
 Thompson, Daniel B., see Baker, Myron Charles
 Thrasher, Brown, see *Toxostoma rufum*
 Curve-billed, see *Toxostoma curvirostre*
 Long-billed, see *Toxostoma longirostre*
 Sage, see *Oreoscoptes montanus*
 Thrush, Dusky, see *Turdus naumanni*
 Eye-browed, see *Turdus obscurus*
 Gray-cheeked, see *Catharus minimus*
 Hermit, see *Catharus guttatus*
 Red-legged, see *Turdus plumbeus*
 Swainson's, see *Catharus ustulatus*
 Wood, see *Hylocichla mustelina*
Thryothorus ludovicianus, 36

- Tinamou, Pale-browed, see *Crypturellus transfasciatus*
 Tit, Great, see *Parus major*
 Titmouse, Plain, see *Parus inornatus*
Tityra semifasciata, 185
Todirostrum cinereum, 213
 Tody-Flycatcher, Common, see *Todirostrum cinereum*
 Toucan, Keel-billed, see *Ramphastos sulfuratus*
 Towhee, Abert's, see *Pipilo aberti*
 Rufous-sided, see *Pipilo erythrophthalmus*
Toxostoma curvirostre, 340-346
 longirostre, 340-346
 rufum, 340-346
Tringa erythropus, 69
 glareola, 69
 melanoleuca, 69
 nebularia, 69
 totanus, 46
Troglodytes aedon, 36
 troglodytes, 72, 349
Trogon citreolus, 185
Tryngites subruficollis, 70
Turdus grayi, 185
 migratorius, 36, 102, 269, 311, 342, 349
 naumanni, 72
 obscurus, 72
 plumbeus, 143
 reevei, 213
 Turkey, see *Meleagris gallopavo*
 Turnstone, Ruddy, see *Arenaria interpres*
 Twite, see *Acanthis flavirostris*
 Tyler, William Breck, see Briggs, Kenneth T.
Tyrannus dominicensis, 141
 melancholicus, 185, 337
 niveigularis, 213
 tyrannus, 310-321
 verticalis, 310-321, 378
 vociferans, 319
Tyto alba, 148, 307
 aurantia, 383

U

- Uria aalge*, 71
 lomvia, 71

V

- van Bockstaele, Roland, see deBoer, Leobert E. M.
 Vander Wall, Stephen B., Stephen W. Hoffman, and Wayne K. Potts, Emigration behavior of Clark's Nutcracker, 162-170
 Verbeek, Nicolaas A. M., Robert W. Butler, and Howard Richardson, Interspecific allopreening solicitation in female Brewer's Blackbirds, 179-180
 Verdin, see *Auriparus flaviceps*
Vermivora celata, 102
 ruficapilla, 102
 Violetear, Sparkling, see *Colibri coruscans*
Vireo flavifrons, 226
 gilvus, 86-88, 102, 311
 huttoni, 263
 olivaceus, 16-26, 217-228, 349
 philadelphicus, 16-26
 solitarius, 21, 36, 102, 349
 Vireo, Hutton's, see *Vireo huttoni*
 Philadelphia, see *Vireo philadelphicus*
 Red-eyed, see *Vireo olivaceus*
 Solitary, see *Vireo solitarius*
 Warbling, see *Vireo gilvus*
 Yellow-throated, see *Vireo flavifrons*
 Vleck, Carol M., Energetic cost of incubation in the Zebra Finch, 229-237
 Vulture, Black, see *Coragyps atratus*
 Turkey, see *Cathartes aura*

W

- Wagner, Judith L., Visibility and bias in avian foraging data, 263-264
- Wagtail, Gray, see *Motacilla cinerea*
- White, see *Motacilla alba*
- Yellow, see *Motacilla flava*
- Walsberg, Glenn E., Nest-site selection and the radiative environment of the Warbling Vireo, 86-88
- Warbler, Arctic, see *Phylloscopus borealis*
- Audubon's, see *Dendroica coronata*
- Bay-breasted, see *Dendroica castanea*
- Black-and-White, see *Mniotilta varia*
- Blackburnian, see *Dendroica fusca*
- Black-throated Gray, see *Dendroica nigrescens*
- Chestnut-sided, see *Dendroica pensylvanica*
- Dusky, see *Phylloscopus fuscatus*
- Gray-and-gold, see *Basileuterus fraseri*
- Hermit, see *Dendroica occidentalis*
- Kirtland's, see *Dendroica kirtlandii*
- Magnolia, see *Dendroica magnolia*
- Nashville, see *Vermivora ruficapilla*
- Orange-crowned, see *Vermivora celata*
- Palm, see *Dendroica palmarum*
- Pine, see *Dendroica pinus*
- Three-banded, see *Basileuterus trifasciatus*
- Townsend's, see *Dendroica townsendi*
- Wilson's, see *Wilsonia pusilla*
- Wood, see *Phylloscopus sibilatrix*
- Yellow, see *Dendroica petechia*
- Yellow-rumped, see *Dendroica coronata*
- Warner, M., see Hand, J. L.
- Wheatear, see *Oenanthe oenanthe*
- Whimbrel, see *Numenius phaeopus*
- Whittow, G. Causey, see Pettit, Ted N.
- Wigeon, Eurasian, see *Anas penelope*
- Wiley, Beth Nethery, see Wiley, James W.
- Wiley, James W., and Beth Nethery Wiley, Breeding season ecology and behavior of Ridgway's Hawk (*Buteo ridgwayi*), 132-151
- Williams, Morris D., Description of the nest and eggs of the Peruvian Thick-knee (*Burhinus superciliosus*), 183-184
- Williams, Morris D., First description of the nest, eggs, and young of the Tumbes Sparrow (*Aimophila [Rhynchospiza] stolzmanni*), 83-84
- Wilsonia pusilla, 102
- Woffinden, Neil D., see Smith, Dwight G.
- Woodby, Douglas A., see Hirsch, Katherine V.
- Woodpecker, Acorn, see *Melanerpes formicivorus*
- Black-backed Three-toed, see *Picoides arcticus*
- Downy, see *Picoides pubescens*
- Gila, see *Melanerpes uropygialis*
- Hairy, see *Picoides villosus*
- Pileated, see *Dryocopus pileatus*
- Red-bellied, see *Melanerpes carolinus*
- Red-cockaded, see *Picoides borealis*
- Red-headed, see *Melanerpes erythrocephalus*
- Wren, Cactus, see *Campylorhynchus brunneicapillus*
- Carolina, see *Thryothorus ludovicianus*
- House, see *Troglodytes aedon*
- Long-billed Marsh, see *Cistothorus palustris*
- Rock, see *Salpinctes obsoletus*
- Winter, see *Troglodytes troglodytes*

X

Xenus cinereus, 69

Y

Yellowlegs, Greater, see *Tringa melanoleuca*

Yellowthroat, Common, see *Geothlypis trichas*

Masked, see *Geothlypis aequinoctialis*

Z

Zenaida auriculata, 387

macroura, 36, 311

Zonotrichia albicollis, 349

leucophrys, 46, 87, 102, 178, 265-267, 362-369

Zwicker, Fred C., see Lewis, Richard A.

THE CONDOR

JOURNAL OF THE COOPER ORNITHOLOGICAL SOCIETY

VOLUME 83



PETER STETTENHEIM, *Editor*

CHARLES R. BLEM, CARL R. BOCK, MILLICENT S. FICKEN,
MICHAEL D. KERN, and GARY D. SCHNELL, *Associate Editors*

HELEN CURCIO, *Assistant Editor*

SUZANNE NOTHNAGLE, *Editorial Assistant*

LEBANON, NEW HAMPSHIRE

1981

CONTENTS, VOLUME 83, 1981

NUMBER 1 (February)

Brown Pelicans in Southern California: Habitat Use and Environmental Fluctuations <i>Kenneth T. Briggs, David B. Lewis, William Breck Tyler, and George L. Hunt, Jr.</i>	1
Ecological Relations and Social Interactions of Philadelphia and Red-eyed Vireos <i>Scott K. Robinson</i>	16
Flock Composition, Breeding Success, and Learning in the Brown Jay <i>Marcy F. Lawton and Carlos F. Guindon</i>	27
Plot Size as a Factor in Winter Bird-population Studies <i>R. Todd Engstrom and Frances C. James</i>	34
Distribution Patterns of Raptors in Relation to Density of Meadow Voles <i>James A. Baker and Ronald J. Brooks</i>	42
Notes on Nesting Raptors in the Llanos of Venezuela <i>William J. Mader</i>	48
Relationships between Jackrabbit Abundance and Ferruginous Hawk Reproduction <i>Dwight G. Smith, Joseph R. Murphy, and Neil D. Woffinden</i>	52
Reproductive Performance of Ring-billed Gulls in Relation to Nest Location <i>Patricia Lynn Ryder and John P. Ryder</i>	57
Nesting of the Sage Thrasher, Sage Sparrow, and Brewer's Sparrow in Southeastern Idaho <i>Timothy D. Reynolds</i>	61
Migrant Birds at Shemya Island, Aleutian Islands, Alaska <i>Daniel D. Gibson</i>	65

SHORT COMMUNICATIONS

Observations of a Large Roost of Common Ravens <i>Richard B. Stiehl</i>	78
Age-related Differences in Piracy of Frigatebirds from Laughing Gulls <i>Michael Gochfeld and Joanna Burger</i>	79
Cooperative Feeding, Defense of Young, and Flocking in the Black-faced Grosbeak <i>Timothy C. Moermond</i>	82
First Description of the Nest, Eggs, and Young of the Tumbes Sparrow (<i>Aimophila [Rhynchospiza] stolzmanni</i>) <i>Morris D. Williams</i>	83
Jabiru Nest, Nest Building, and Quintuplets <i>Betsy Trent Thomas</i>	84
Nest-site Selection and the Radiative Environment of the Warbling Vireo <i>Glenn E. Walsberg</i>	86
Non-random Orientation of Gila Woodpecker Nest Entrances in Saguaro Cacti <i>Richard S. Inouye, Nancy J. Huntley, and David W. Inouye</i>	88
Observations of Feeding at Sea by a Peregrine Falcon and an Osprey <i>William Rogers and Stephen Leatherwood</i>	89
Embryonic Double Monster in the Wedge-tailed Shearwater <i>Ted N. Pettit and G. Causey Whitlow</i>	91
INFORMATION FOR CONTRIBUTORS	92
NEWS AND NOTES	94
THE BULLETIN BOARD	94
RECENT PUBLICATIONS	15, 26, 41, 47, 51, 60, 91, 94, 95

NUMBER 2 (May)

Bird Communities and Forest Structure in the Sierra Nevada of California <i>Edward C. Beedy</i>	97
Time Budgets, Energy Needs, and Kleptoparasitism in Breeding Lesser Sheathbills (<i>Chionis minor</i>) <i>Alan E. Burger</i>	106
Microgeographic Variation in the Song of the Sage Sparrow <i>Terrell Rich</i>	113
Feeding Ecology of Marine Cormorants in Southwestern North America <i>David G. Ainley, Daniel W. Anderson and Paul R. Kelly</i>	120
Breeding Season Ecology and Behavior of Ridgway's Hawk (<i>Buteo ridgwayi</i>) <i>James W. Wiley and Beth Nethery Wiley</i>	132
Cowbird Parasitism, Host Fitness, and Age of the Host Female in an Island Song Sparrow Population <i>James N. M. Smith</i>	152
Emigration Behavior of Clark's Nutcracker <i>Stephen B. Vander Wall, Stephen W. Hoffman and Wayne K. Potts</i>	162
Differential Use of Territorial Sites by Male Blue Grouse <i>Richard A. Lewis and Fred C. Zwickel</i>	171

SHORT COMMUNICATIONS

Estimation of the Relative Protein Cost of Reproduction in Birds <i>Charles T. Robbins</i>	177
Interspecific Allopreening Solicitation in Female Brewer's Blackbirds <i>Nicolaas A. M. Verbeek, Robert W. Butler and Howard Richardson</i>	179

Observations at a Twenty-egg Killdeer Nest	
John T. Mundahl, Oscar L. Johnson and Mark L. Johnson	180
First Records of Black-legged Seriema (<i>Chunga burmeisteri</i>) in Bolivia	
C. Gregory Schmitt and Donna C. Cole	182
Description of the Nest and Eggs of the Peruvian Thick-Knee (<i>Burhinus superciliosus</i>)	
Morris D. Williams	183
Temporal Feeding Patterns of Some Tropical Frugivores	Gail E. Kantak 185
Inheritance of Color Phases of Ferruginous Hawks	Sheila M. Schmutz and Josef K. Schmutz 187
NEWS AND NOTES	190
THE BULLETIN BOARD	191
RECENT PUBLICATIONS	170, 189, 191

NUMBER 3 (August)

Thermal Stress and Predation: Influences on the Structure of a Gull Colony and Possibly on Breeding Distributions	J. L. Hand, G. L. Hunt, Jr., and M. Warner 193
Somatic Chromosomes of the Congo Peafowl (<i>Afropavo congensis</i>) and Their Bearing on the Species' Affinities	Leobert E. M. de Boer and Roland van Bockstaele 204
Status and Distribution of Some Northwest Peruvian Birds	Thomas S. Schulenberg and Theodore A. Parker, III 209
The Songs and Singing Behavior of the Red-eyed Vireo	Donald J. Borror 217
Energetic Cost of Incubation in the Zebra Finch	Carol M. Vleck 229
Weight Loss in Incubating Albatrosses and Its Implications for Their Energy and Food Requirements	P. A. Prince, C. Ricketts and G. Thomas 238
Nest Site Selection in Kelp Gulls in Southern Africa	Joanna Burger and Michael Gochfeld 243
Nest Site Selection in Mountain Bluebirds	Christopher J. Herliugson 252
Populations, Feeding Ecology and Molt of Steller's Eiders	Margaret R. Petersen 256
SHORT COMMUNICATIONS	
Visibility and Bias in Avian Foraging Data	Judith L. Wagner 263
Growth of a Nestling Marbled Murrelet	Katherine V. Hirsch, Douglas A. Woodby and Lee B. Astheimer 264
Neighbor-stranger Song Discrimination in White-crowned Sparrows	Myron Charles Baker, Daniel B. Thompson and Gregory L. Sherman 265
Diuresis on the Desert? Effects of Fruit- and Nectar-feeding on the House Finch and Other Species	William A. Calder, III 267
Nest Discovery and Selection by Brown-headed Cowbirds	Charles F. Thompson and Bradley M. Gottfried 268
Range Expansion of the Bronzed Cowbird with the First Missouri Record	Mark B. Robbins and David A. Easterla 270
First Record of a Black-legged Kittiwake in Idaho	John W. Connelly and Robert J. Gates 272
Breeding Record for the Snowy Plover for Montana	Robert L. Eng 273
Occurrence of Twin Gadwall Embryos	J. T. Lokemoen and D. E. Sharp 273
TREASURER'S REPORT	275
THE BULLETIN BOARD	276
RECENT PUBLICATIONS	216, 228, 237, 255, 274

NUMBER 4 (November)

Geographic Variation in Vocalizations and Evolution of North American Pine Grosbeaks	Curtis S. Adkisson 277
A Comparison of Vocalizations of Western Gulls (<i>Larus occidentalis</i>) and <i>L. o. livens</i>	Judith Latta Hand 289
Roost Selection by Spotted Owls: An Adaptation to Heat Stress	Cameron W. Barrows 302
Nest Site Selection in Eastern and Western Kingbirds: A Multivariate Approach	David I. MacKenzie and Spencer G. Sealy 310
Mate Change and Reproductive Success in the Lesser Snow Goose	F. Cooke, M. A. Bousfield, and A. Sadura 322
Feeding Competition between Laughing Gulls and Herring Gulls at a Sanitary Landfill	Joanna Burger 328
Foraging Behavior of the Acorn Woodpecker in Belize, Central America	Peter B. Stacey 336
Wintering Ecology of Thrashers in Southern Texas	David H. Fischer 340
Bird Populations before and after Wildfire in a Great Lakes Pine Forest	Steven Apfelbaum and Alan Haney 347
Respiratory Gas Exchange and Growth of White Tern Embryos	Ted N. Pettit, Gilbert S. Grant, G. Causey Whittow, Hermann Rahn, and Charles V. Paganelli 355

Comparative Patterns of Nestling Growth in White-crowned Sparrows	James R. King and Joel D. Hubbard	362
Geographic Variation in Mid-winter Body Composition of Starlings	Charles R. Blem	370
Mobbing Calls of the Phainopepla	Daniel W. Leger and Laura F. Carroll	377

SHORT COMMUNICATIONS

Yolk Formation and Oviposition in Captive Emus	Katherine V. Hirsch and C. R. Grau	381
Adaptive Significance of Ear Tufts in Owls	Michael Perrone, Jr.	383
What is the Song of the Black-capped Chickadee?	Millicent S. Ficken	384
First Nesting Record of the Peregrine Falcon in Ecuador	J. Peter Jenny, Fernando Ortiz, and Michael D. Arnold	387
A Nest of the Rufous-vented Ground-Cuckoo (<i>Neomorphus geoffroyi</i>)	Paul Roth	388
Nest Predation of Abert's Towhees by Coachwhips and Roadrunners	Deborah M. Finch	389
BYLAWS OF THE COOPER ORNITHOLOGICAL SOCIETY		390
NEWS AND NOTES		398
RECENT PUBLICATIONS	309, 321, 354, 380, 397,	400
THE BULLETIN BOARD		400
STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION		400
ANNALS OF THE COOPER ORNITHOLOGICAL SOCIETY		401
INDEX TO VOLUME 83		403

